



NAVY and MARINE CORPS SAFETY COUNCIL



Second Flag Panel Meeting
21 September 2004



RADM Dick Brooks, USN
Commander, Naval Safety Center



Agenda

- 0830-0835 Welcoming Remarks DASN(S) Ms. Connie DeWitte
- 0835-0900 Introduction/Overview RADM Brooks, NSC
- 0900-0940 Committee Updates
- 0940-1025 Guest Speaker Ms. Deborah Grubbe, DuPont
Corporate Director - Safety and
BREAK
- Health 1025-1040
- 1040-1050 Fleet Initiatives 2nd MAW Mentoring Program
- 1050-1110 DON Safety Strategy DASN(S) Ms. Connie DeWitte
Update
- 1110-1135 SECNAV Comments and Q&A
- 1135-1155 High-Level Issues/Discussion
- 1155-1200 Closing Remarks RADM Brooks



Navy and Marine Corps Safety

Council COMPOSITION:

- Afloat Safety
- Aviation Safety
- Shore Safety
- Ground Tactical Safety

WORK IN PROGRESS

OBJECTIVES:

- Develop Charter
- Complete POA&Ms
- Strategic Plan

FY2003	FY2004			FY2005
16 DEC 2003	JAN-FEB 2004	17 MAR 2004	21 SEP 2004	SEP 2005
Working Group Meeting	Committee Meetings	First Flag Panel Meeting Washington, DC	Second Flag Panel Meeting Quantico, VA	50% Reduction Deadline
<ul style="list-style-type: none">• Action items• Takeaways		<ul style="list-style-type: none">• Summary of Council Meetings and Actions• NSC/SD report to CNO/CMC/DASN(S) as appropriate	<ul style="list-style-type: none">• Decisions/Commitment• Products/Decisions/Funding• Strategic Plan	

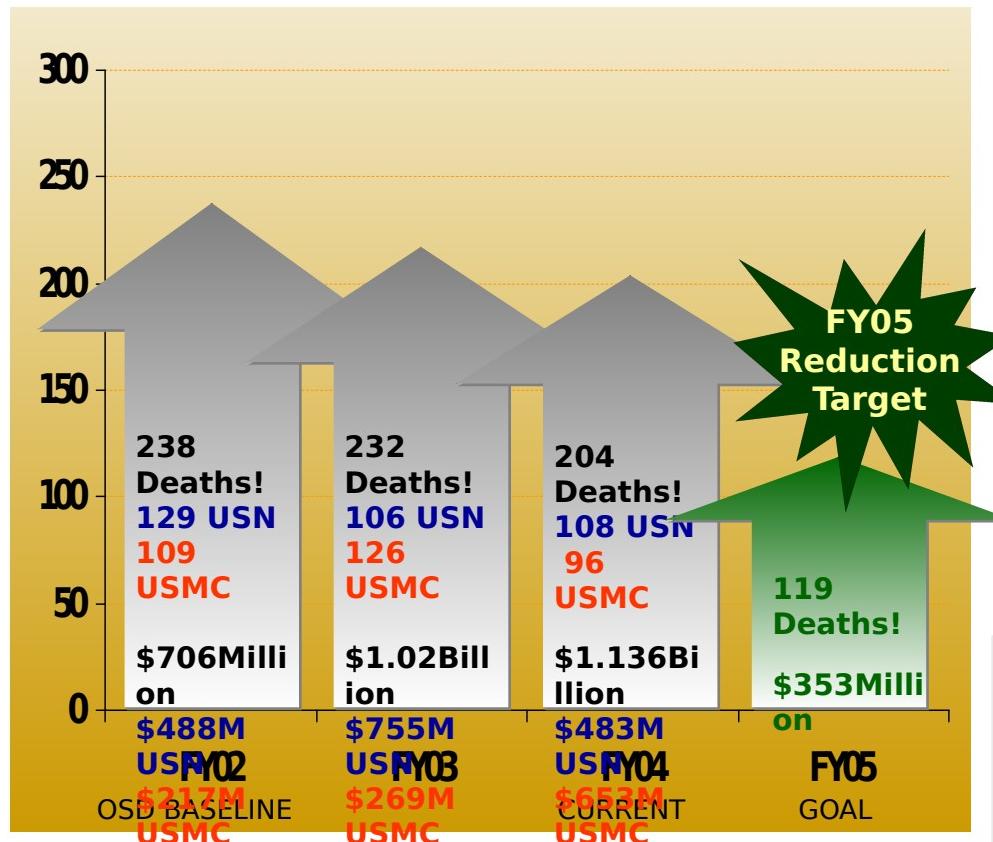
ACTION ITEMS — **BRIEF FLAGS** — **BRIEF CNO/CMC/DASN(S)** — **DECISIONS**





Where We Are

USN/USMC FATALITIES AND RESOURCES LOST FY02-04



In FY04, naval aviation mishap cost has exceeded \$1B. There has been no other fiscal or calendar year (FY81+) which has cost \$1B+ through the end of the year.

Mishap cost includes all class A and B F/FR/AG mishaps.

Date	This FY-To Date Mishap Cost (\$Millions):	Last FY-To
Class A FM	784.01	
Class B FM	10.62	Class A FRM
1,008.62	10.99	0.00
Class A FRM	1.22	1.22
0.00	Class B FRM	Class A AGM
38.37	0.00	64.94
Class B AGM	3.47	3.47
2.66		

We are headed toward 213 deaths in FY04 –
Total damage to aircraft, aircrew, and DOD/non-DOD property

(113 USN & 100 USMC)

Our FY05 50% mishap reduction goal is 119.
OUR ENDSTATE GOAL IS ZERO



PMV Fatality Rates

Top Causal Factors

WHEN

Nighttime Driving
Use
Weekends
Speed

WHY

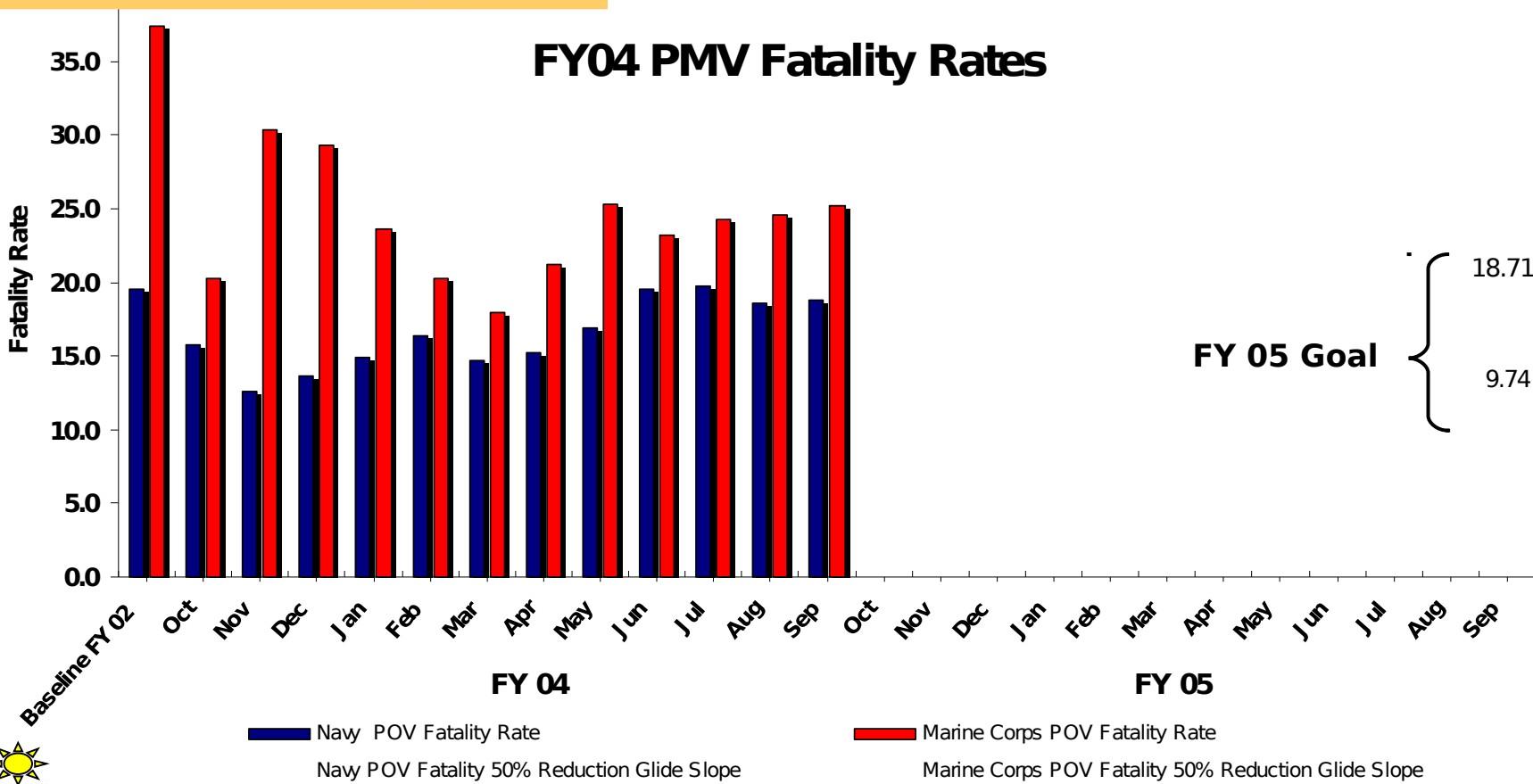
No Seat Belt
Excessive
Alcohol
Fatigue



USN/USMC Losses

USN	USMC
69 Fatalities	43 Fatalities
\$10.3 Million	\$5.9 Million

(includes cost of fatality IAW DOD 6055 and DOD property loss)





Recreation/Off-Duty Fatality Rates

Leading Causes of Deaths &

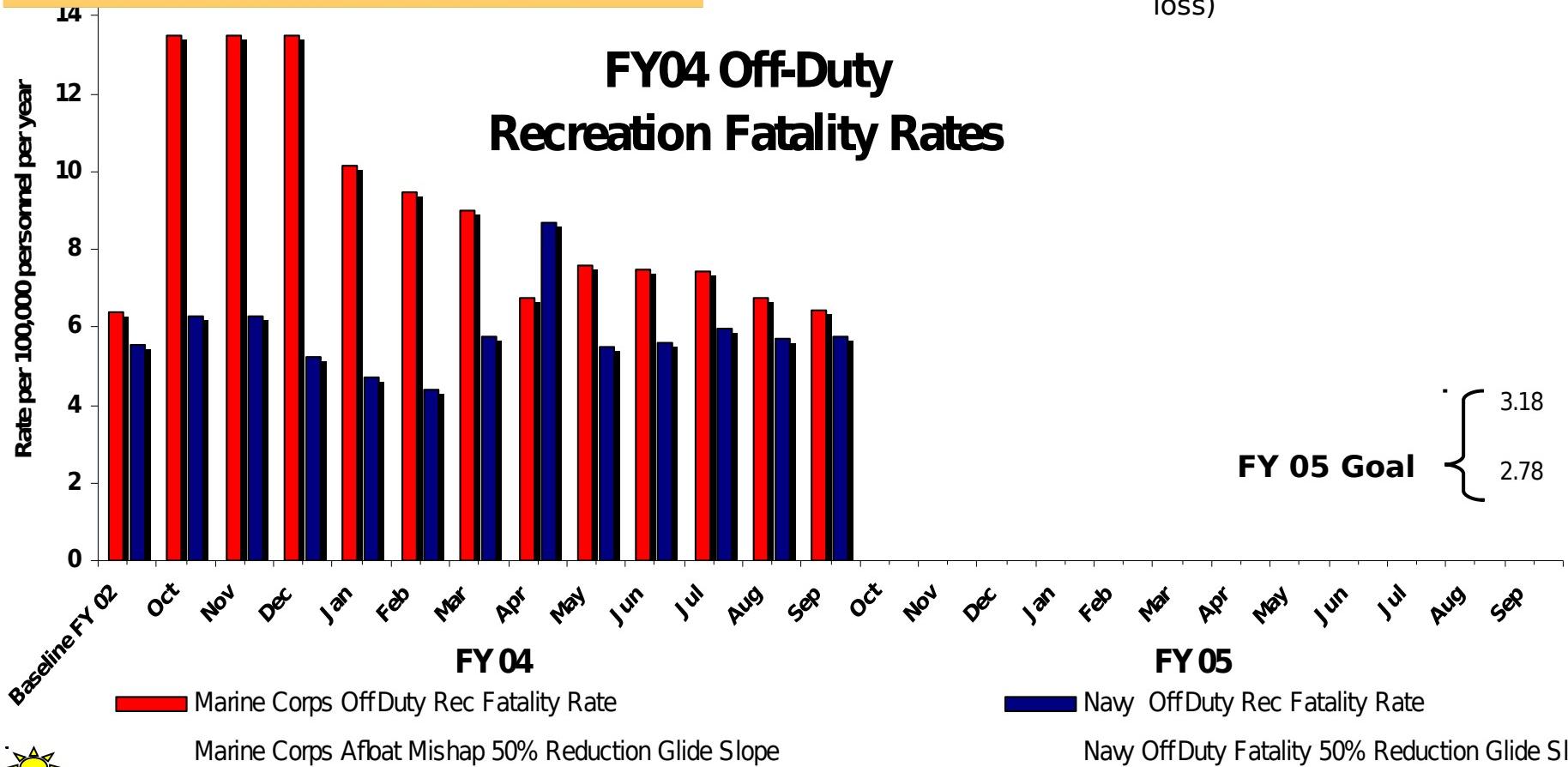
Injuries

- Drowning
- Falls
- Outdoor Recreation
- Team and Outdoor Sports
- Water Sports (jet skis, motorboat)

USN/USMC Losses

USN	USMC
21 Fatalities	11 Fatalities
\$2.9 Million	\$2.4 Million

(includes cost of fatality IAW DOD 6055 and DOD property loss) ☀

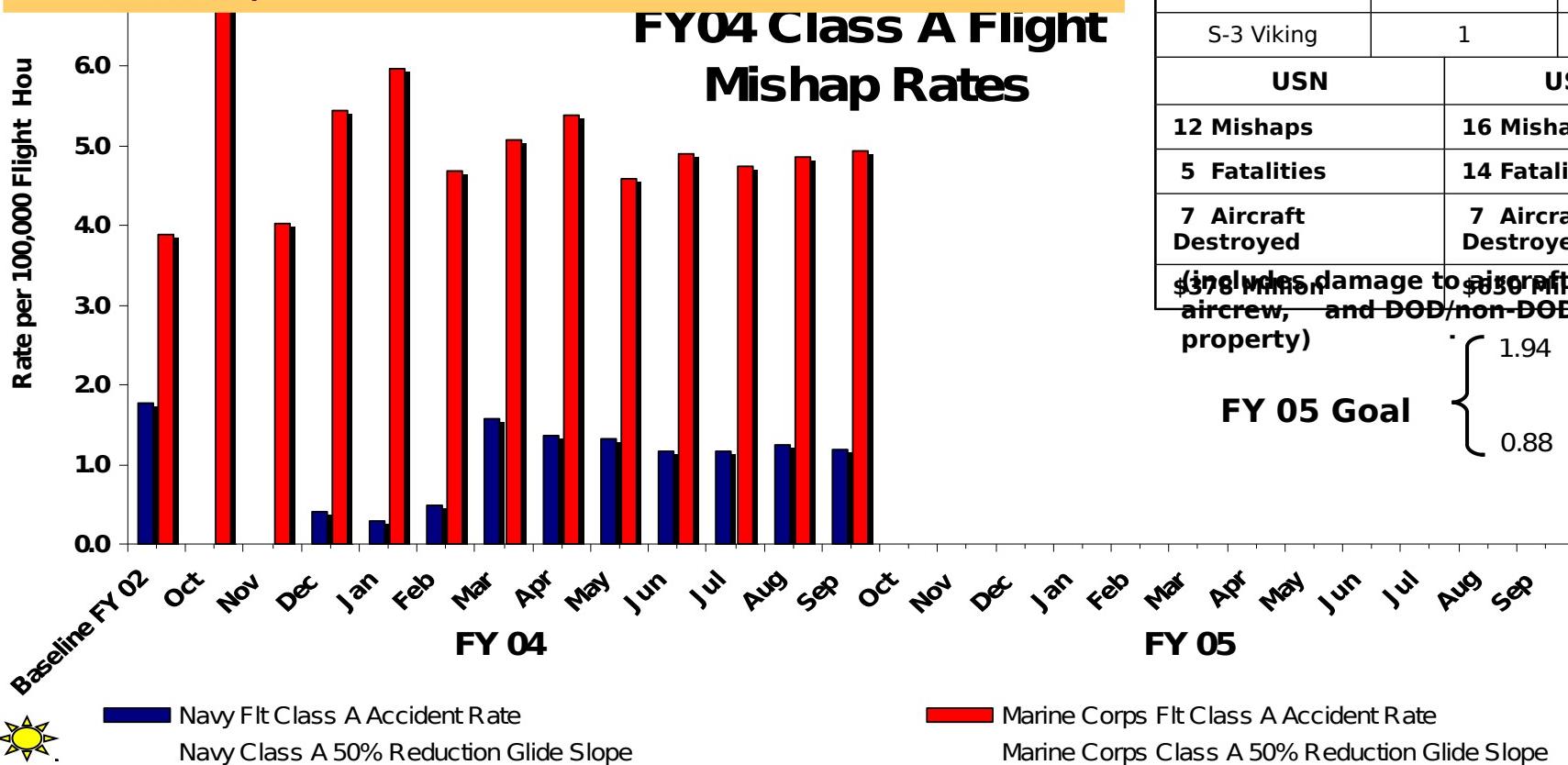




Class-A Flight Mishap Rate

Leading Causal Factors

- Human Error (89%)
 - Aircrew (breakdown in Crew Resource Management, poor decision making, failure to properly perform emergency procedures)
 - Supervisory (failure to provide adequate guidance and training)
- Material/Systems Malfunction (11%)
 - Material/component catastrophic failure (no human error involved)



Mishaps	USN	USMC
F/A -18 Hornet	7	8
AH-1W Cobra	0	3
T-45 Goshawk	2	0
AV-8B Harrier	0	2
UH-1 Huey	0	2
CH-53D/E	0	2
CH-46 Sea Knight	0	1
F-14 Tomcat	1	0
SH-60 Seahawk	1	0
UC-35	0	1
S-3 Viking	1	0

USN	USMC
12 Mishaps	16 Mishaps
5 Fatalities	14 Fatalities
7 Aircraft Destroyed	7 Aircraft Destroyed
(Includes damage to aircraft, aircrew, and DOD/non-DOD property)	\$375 Million

Includes damage to aircraft, aircrew, and DOD/non-DOD property)

\$375 Million

(\$150 Million

aircrew, and DOD/non-DOD

property)

FY 05 Goal

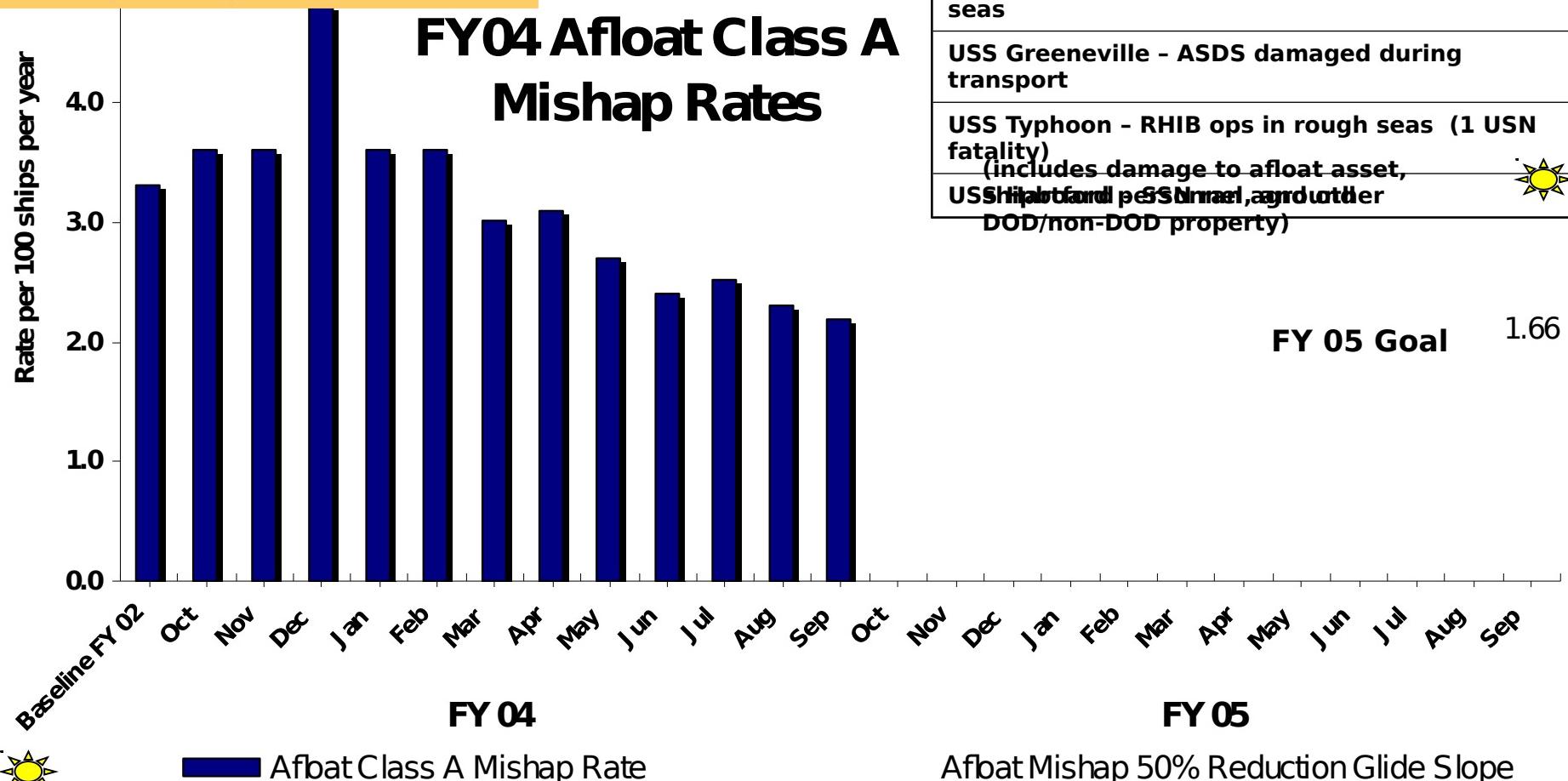
{ 1.94
0.88



Afloat Class-A Mishap Rates

Top 5 Causal Factors

- Inadequate Supervision
- PMS not accomplished
- Poor Crew Resource Management
- Lack of Situational Awareness
- Complacency





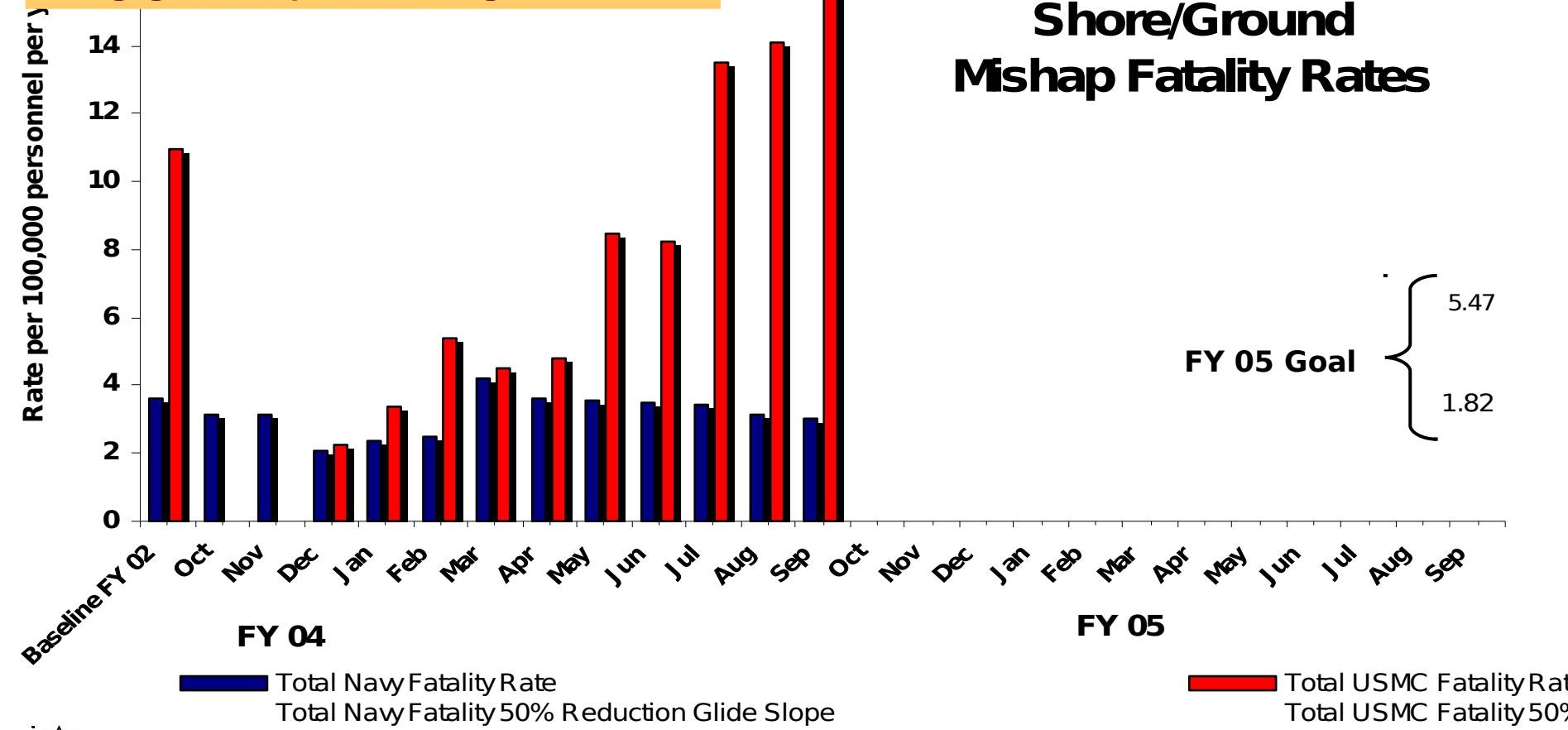
Operational Shore/Ground Fatality Rates

Leading Causes of Deaths

- Tactical Vehicles
- GMV Mishaps
- Industrial Mishaps (electrocutions, burns, falls)
- PRT
- Negligent Weapons Discharge

USN/USMC Losses	
USN	USMC
18 Fatalities	42 Fatalities
\$464.5 Million	\$641 Million

Shore/Ground Mishap Fatality Rates



Note: Does not include casualties due to enemy action



Safety Council Initiatives

FLEETWIDE INITIATIVES

*Defense Safety Oversight Committee

Navy and Marine Corps Safety Council Operational Risk Management

Data Centric Technology - MFOQA Safety Strategic Plan

*Human Factors Analysis

CNET 5 Vector Model

Navy Knowledge Online

Culture Workshops

Command Safety Assessment

Maintenance Climate Assessment Survey

NSC PROGRAMS

Mishap Investigations Surveys

Web-Enabled Safety System (WESS)

50% Mishap Reduction Media Kits

Naval Safety Campaign Plan

*ASCAS

ORM Assessment (ORMAS)

Media Campaign: Video/Print/Broadcast

Critical Days of Summer Campaign

Good Samaritan Program

*First Flag Notification

NHTSA/Drive Smart VA/USAA/Click It or Ticket/Harley Davidson

*BG/ESG/MEU Reports

USMC SD PROGRAMS

*ORM and Fundamentals Campaign

Aviation Task Force

Education Initiative for Safety Professionals

Safety Intern Program (with Army Safety Center)

*PST Mishap Reduction Initiative



NMCSC/DSOC Funding Roll-Up

	Required	Funded	Unfunded	Priority	Required	Funded	Unfunded	Unfunded
USN CSA/MCAS/ASCAS	0.499	0.423	0.076	1	0.486	0.000	0.486	0.562
USMC CRM/CAS/MCAS (HQMC(SD))	0.180	0.180	0.000		0.180	0.000	0.180	0.180
USMC Traffic Safety (HQMC(SD))	3.500	0.000	3.500	2	3.500	0.000	3.500	7.000
USN On-Site Safety Surveys (FSA)	0.714	0.114	0.600	3	0.784	0.309	0.475	1.075
USMC On-Site Safety Surveys (HQMC(SD))	0.030	0.030	0.000		0.030	0.030	0.000	0.000
USN Culture Workshops	0.075	0.075	0.000		0.104	0.075	0.029	0.029
USMC Culture Workshops (HQMC(SD))	0.025	0.012	0.013	4	0.033	0.012	0.021	0.034
Tactical OSH Specialists (HQMC(SD))								
- USMC Intern Training	1.000	0.000	1.000	5	1.000	0.000	1.000	2.000
- USMC Tactical Training	0.200	0.000	0.200		0.200	0.000	0.200	0.400
USN Traffic Safety and Rods (CNI-N46)	5.410	5.000	0.410	6	5.410	5.410	0.000	0.410
USMC ORM (HQMC(SD))	0.050	0.000	0.050	7	0.050	0.000	0.050	0.100
TOTAL for Funding Priority Items			5.849				5.941	11.790
Safety Management System (ESAMS)	2.400	2.400	0.000		2.400	2.400	0.000	0.000
Military Flight Operations Quality Assurance	6.200	6.200	0.000		9.800	9.800	0.000	
USN Federal Lost Workday Rates	3.000	3.000	0.000		3.000	3.000	0.000	0.000
USMC Federal Lost Workday Rates	0.500	0.000	0.500		0.500	0.000	0.500	1.000
OTHER DSOC INITIATIVES								
Voluntary Protection Program (VPP)	0.630	0.000	0.630		TBD	TBD		0.630
USN Airborne Ankle Braces	0.032	0.000	0.032		0.032	0.000	0.032	0.064
USMC Airborne Ankle Braces	0.036	0.000	0.036		0.036	0.000	0.036	0.072
USN Reemploy Injured Employees	1.900	0.000	1.900		1.900	0.000	1.900	3.800
USMC Reemploy Injured Employees	1.300	0.000	1.300		1.300	0.000	1.300	2.600
TOTAL Funding - Other Items			3.898				3.268	7.166



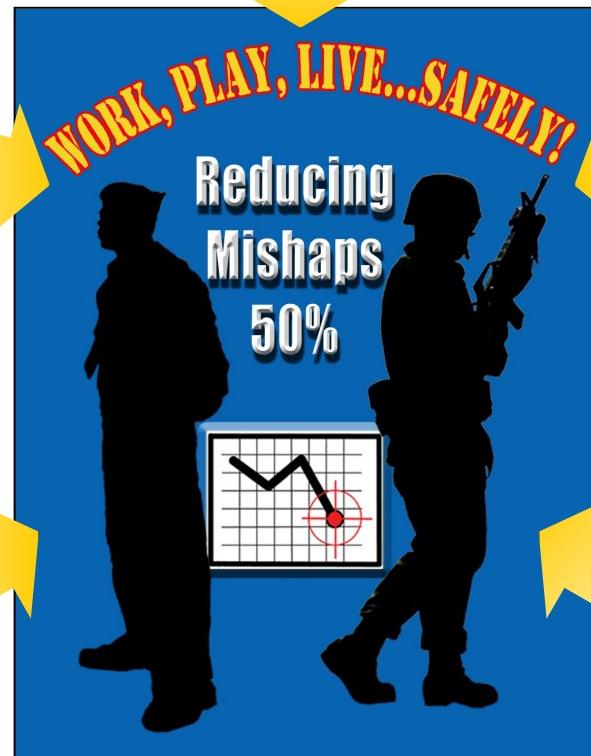
Navy-Wide Challenges

There is still lots to be done!

Eliminate or Reduce Top
Causal Factor of Mishaps:
Human Error (85%)

Eliminate or Reduce Highest
Cost, Fatalities, Injuries:
Aviation/PMV/REC

Emphasize Accountability
And Responsibility:
Traffic and Recreation



Reporting &
Analysis

Performance Metrics
for Mishap Reduction

Culture Change:

- Leadership involvement necessary
- Reactive vice proactive
- Report class B/C mishaps
- Make safety a high priority

Funds needed for Safety
Programs:

- ~~USN~~-USMC Safety Council Priority Items

\$11.79M FY05-06
(\$2.08M USN & \$9.71M



Discussion Issues

- Prioritization and Funding of Safety Initiatives
 - On Time Funds
 - Programs on “Life Support” ➔ Formalize funding
- Accountability – Aircraft/Ship mishap vs. PMV/Off-Duty
- Intrusive Leadership – How do we stop off-duty mishaps?
- Defense Safety Oversight Council



QUESTIONS

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PMV Fatality Rates & Class A's



MISHAP AND FATALITY

TRENDS
FY05

FY05 Goals

FY0

US N 3.75
4 USMC 2.9

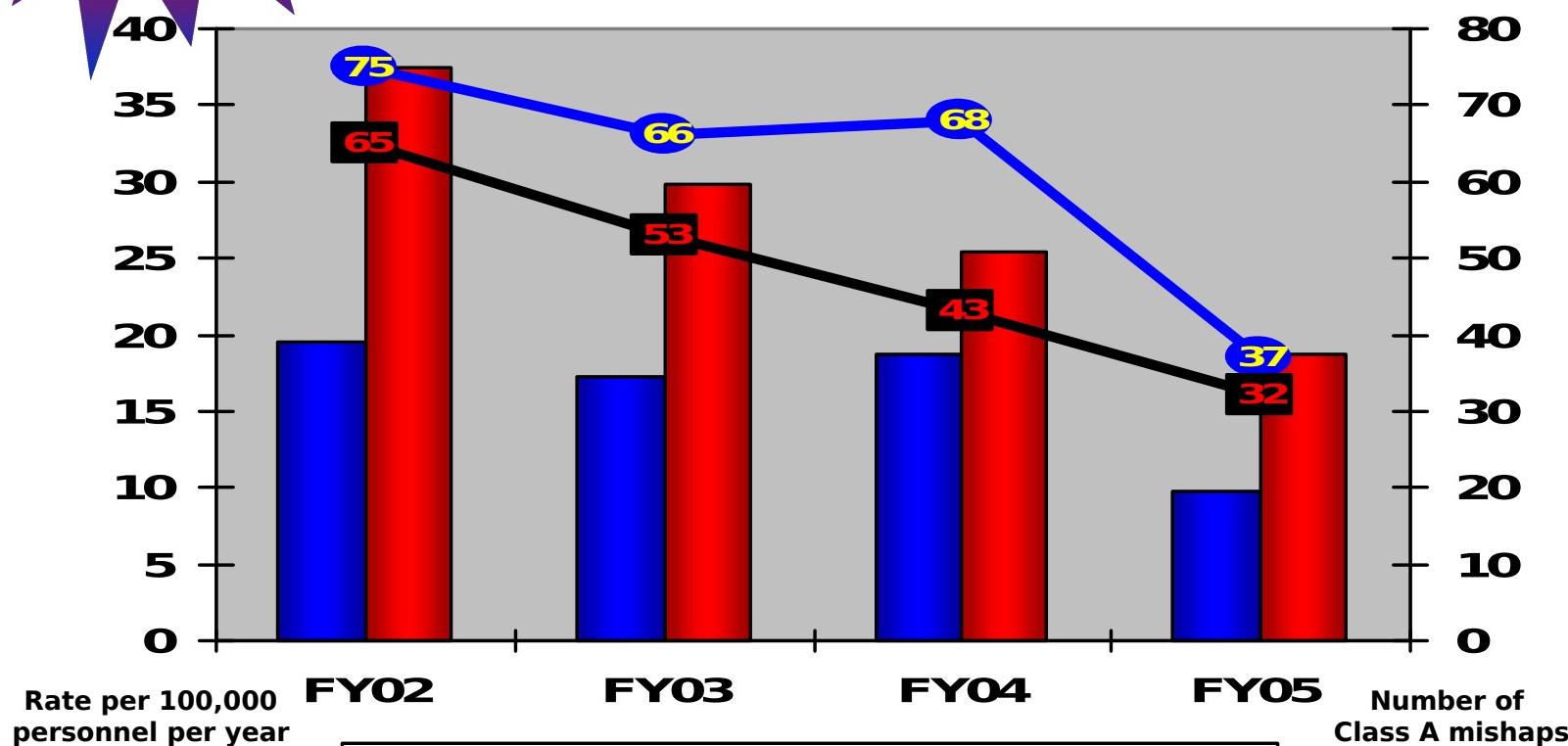
US N 3.82

USMC 6.54

US N 9.74

USMC 18.70

PMV
(Off-Duty)



Rate per 100,000
personnel per year

FY02

FY03

FY04

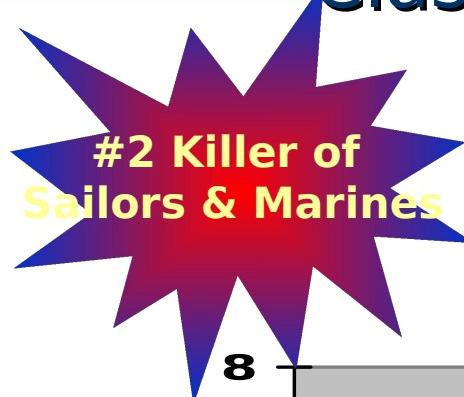
FY05

Number of
Class A mishaps

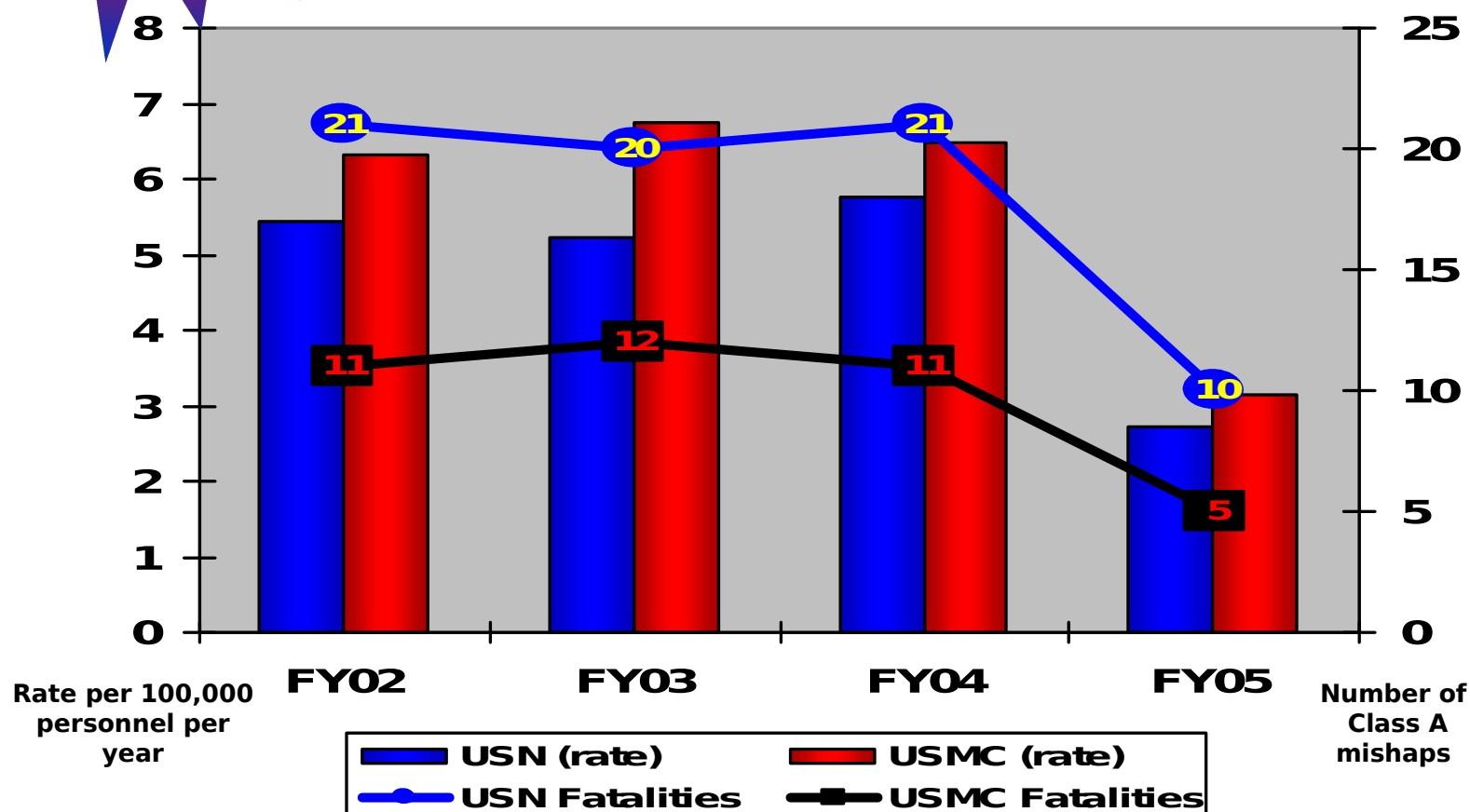
USN (rate)
USN Fatalities
USMC (rate)
USMC Fatalities



Off-Duty Recreation Fatality Rates & Class A's



#2 Killer of
Sailors & Marines

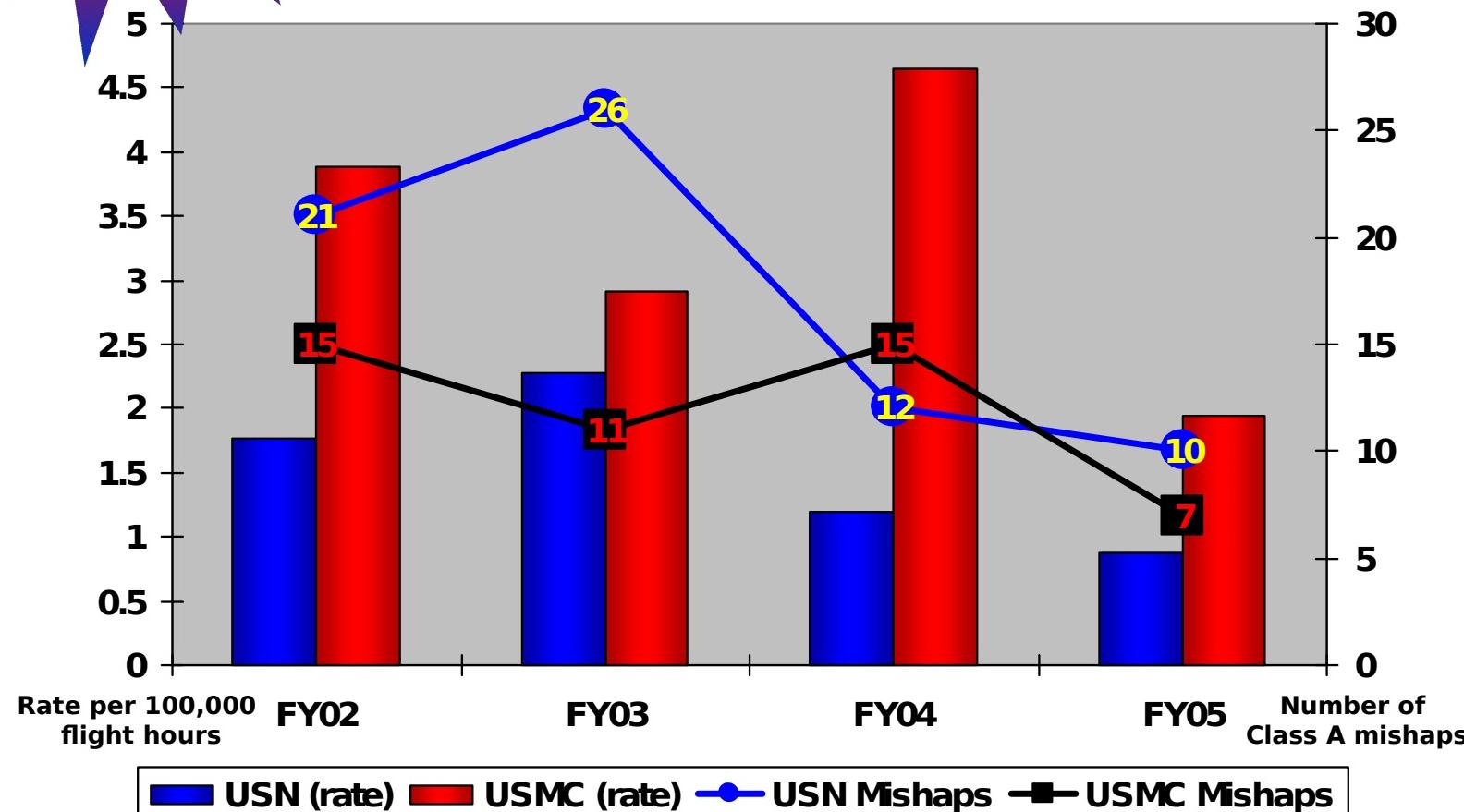




Aviation Mishap Rates & Class A's



MISHAP AND FATALITY TRENDS		FY05 Goals			
FY0	FY05	US	USMC	US	USMC
4	4	.15	1.98	.31	2.99
US	US	.88	1.94		

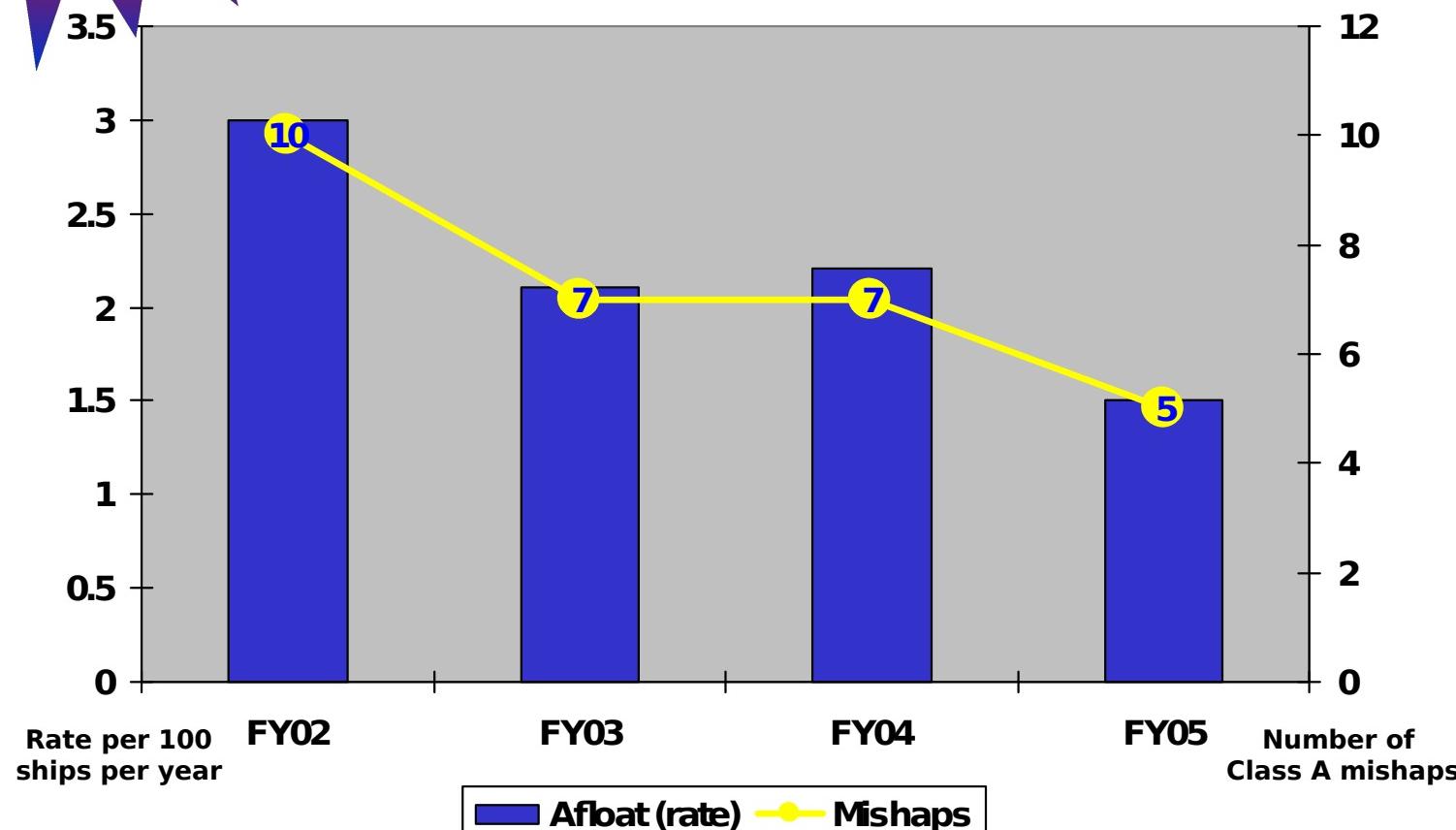




Afloat Class A Mishap Rates & Class A's



MISHAP AND FATALITY		TRENDS		FY05 Goals	
FY0	FY05	US	USMC	US	USMC
Afloat	4	.08	N/A	.7	N/A

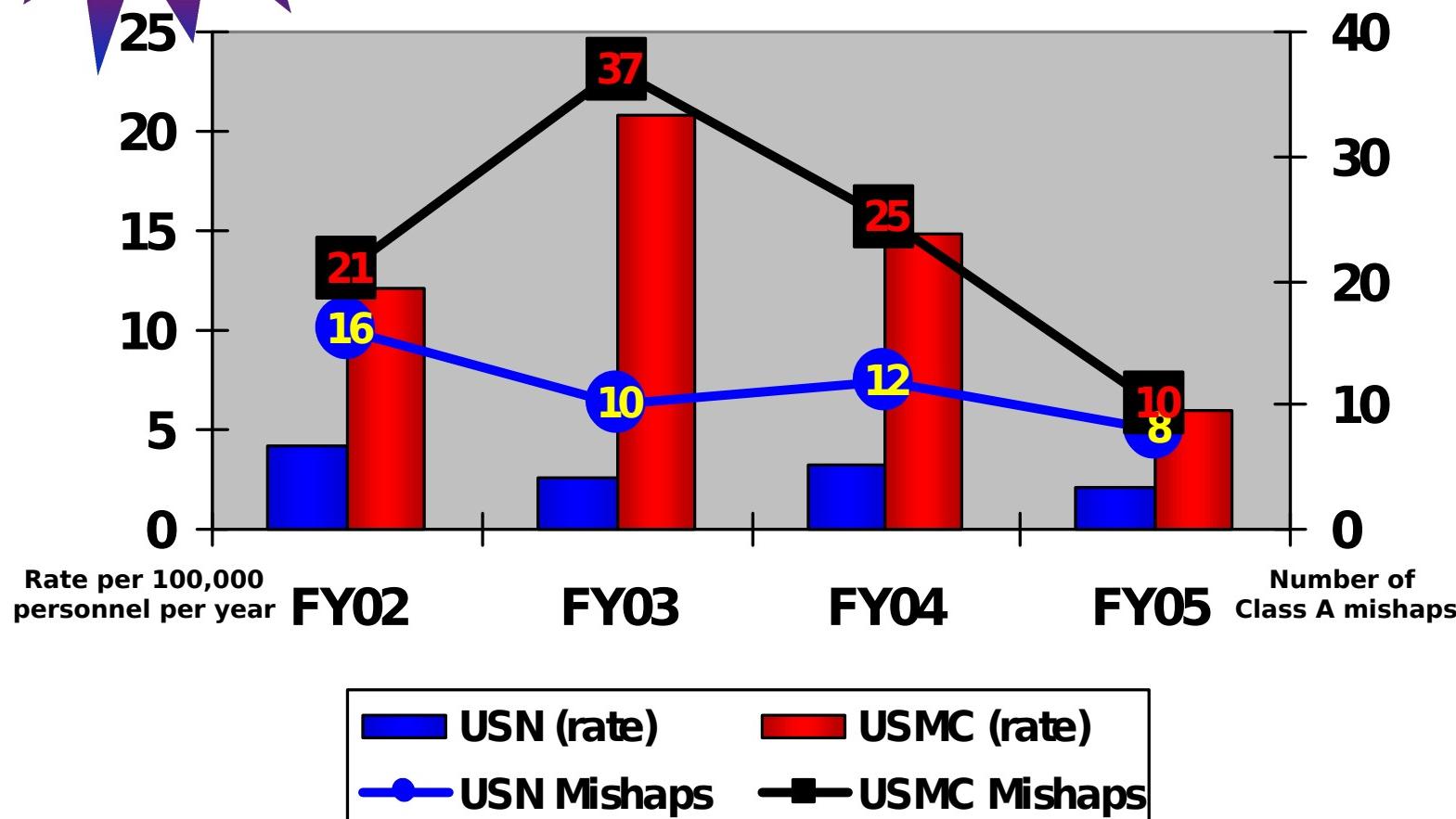




Operational Shore/Ground Mishap Rates

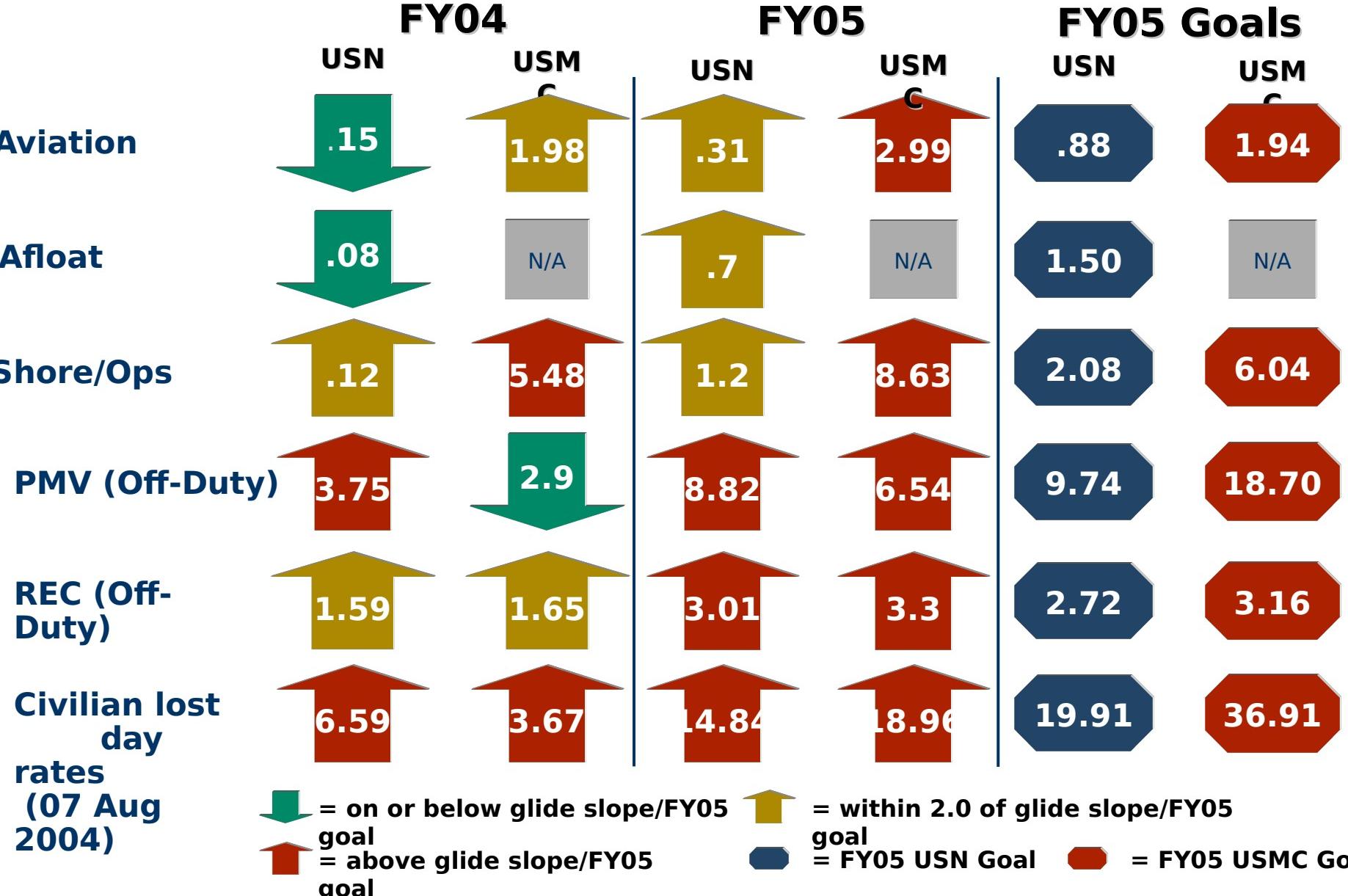
8 Class A's

Area of concern...





Mishap and Fatality Trends

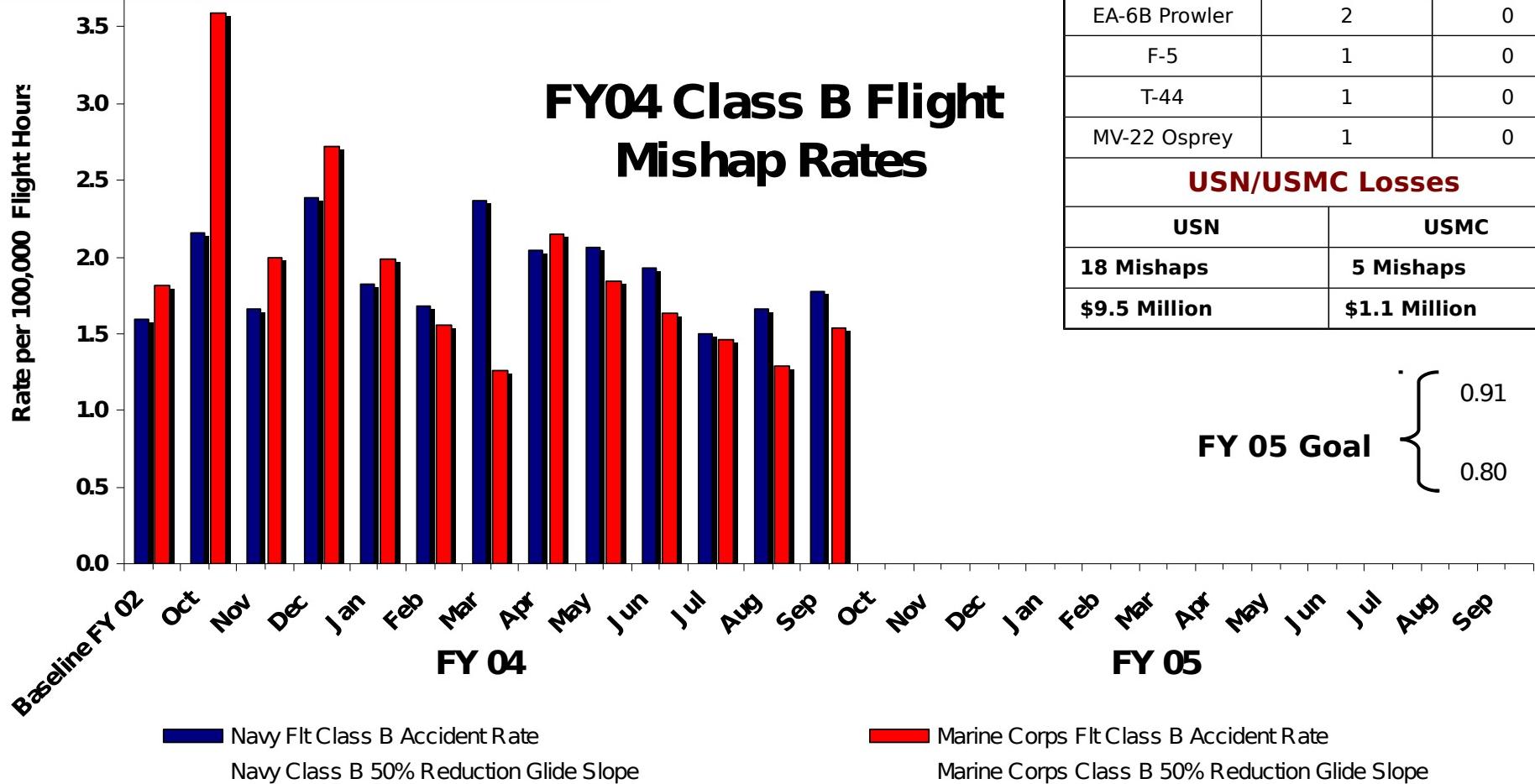




Class-B Flight Mishap Rate

Top Causal Factors

- Human Error
- Material Malfunction
- Aircrew Factor
- Supervisory Personnel
- Maintenance Personnel





DON 50% Mishap Reduction Progress

USN/USMC Losses

USN	USMC
55,885 Lost Days	7,413 Lost Days
\$19.6 Million	\$2.6 Million

